



Montrose Environmental

Scott Williamson

471 Denver Ave

Loveland

CO

80537

November 12, 2025

Project Name - Chevron - Great Western Sugar 1

Project Number - 42731

Attached are your analytical results for Chevron - Great Western Sugar 1 received by Origins Laboratory October 30, 2025. This project is associated with Origins project number E5J0717-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

The laboratory is TNI accredited by the Utah DHHS ELAP under certificate number CO010822024.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory
303.433.1322
projectmanager@originslab.com





Montrose Environmental
471 Denver Ave
Loveland CO 80537

Scott Williamson
Project Number: 42731
Project: Chevron - Great Western Sugar 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FLR01@2'	E5J0717-01	Soil	October 30, 2025 9:48	10/30/2025 17:10
FLR01-COMP	E5J0717-02	Soil	October 30, 2025 9:58	10/30/2025 17:10
FLR02@3'	E5J0717-03	Soil	October 30, 2025 10:50	10/30/2025 17:10

Origins Laboratory

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Kayla Kenyon, Project Manager

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: ESJ0717

Client: Montrose

Client Project ID: Great Western Sugar 1

Checklist Completed by: NB / NB

Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 10 / 30 / 25

Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____

Cooler Number/Temperature: 1 / 0.0 °C _____ / _____ °C _____ / _____ °C (Describe)

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

NB
Reviewed by (Project Manager)

10 / 30 / 25
Date/Time Reviewed



Montrose Environmental
 471 Denver Ave
 Loveland CO 80537

Scott Williamson
 Project Number: 42731
 Project: Chevron - Great Western Sugar 1

FLR01@2'

10/30/2025 9:48:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5J0717-01 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	0.286		0.116	mg/L dry	1	B5J3057	10/30/2025	10/31/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND	0.186	0.232	mg/kg dry	1	B5J3114	10/31/2025	11/08/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		28.7	mg/kg dry	1	B5J3039	10/30/2025	10/30/2025	U
Residual Range Organics (C28-C36)	ND		115	"	"	"	"	"	U
Surrogate: o-Terphenyl	87.9 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	B5J3048	10/30/2025	10/31/2025	U
1,3,5-Trimethylbenzene	ND		0.002	"	"	"	"	"	U
Benzene	ND		0.002	"	"	"	"	"	U
Ethylbenzene	ND		0.002	"	"	"	"	"	U
Toluene	ND		0.002	"	"	"	"	"	U
Xylenes, total	ND		0.002	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.260		0.229	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	94.9 %			70-130		"	"	"	

Origins Laboratory

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Kayla Kenyon, Project Manager



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FLR01@2'

10/30/2025 9:48:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5J0717-01 (Soil)									
Origins Laboratory									
GBTEX+TMBs by 8260D									
Surrogate: Toluene-d8	96.4 %			70-130		B5J3048	10/30/2025	10/31/2025	
Surrogate: 4-Bromofluorobenzene	92.5 %			70-130		"	"	"	
Metals by Saturated Paste by EPA 6010									
Calcium	3.11		0.499	meq/L	10	[CALC]	10/30/2025	11/03/2025	
Magnesium	0.875		0.823	"	"	"	"	"	
Sodium	0.502		0.435	"	"	"	"	"	
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	0.009		0.002	mg/kg dry	1	B5J3032	10/30/2025	10/31/2025	
2-Methylnaphthalene	0.007		0.002	"	"	"	"	"	
Acenaphthene	ND		0.023	"	"	"	"	"	U
Anthracene	ND		0.023	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.006	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.023	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.023	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.023	"	"	"	"	"	U
Chrysene	ND		0.023	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.023	"	"	"	"	"	U
Fluoranthene	ND		0.023	"	"	"	"	"	U

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 Project: Chevron - Great Western Sugar 1

FLR01@2'

10/30/2025 9:48:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5J0717-01 (Soil)
 Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Fluorene	ND		0.023	mg/kg dry	1	B5J3032	10/30/2025	10/31/2025	U
Indeno (1,2,3-cd) pyrene	ND		0.023	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.023	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.5 %			60-130		"	"	"	
Surrogate: Anthracene-d10	93.6 %			60-130		"	"	"	
Surrogate: Pyrene-d10	101 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	96.8 %			60-130		"	"	"	

Percent Solids

Total Solids, Percent	86.5			mass percent	1	B5J3078	10/30/2025	10/30/2025	
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pH in Soil by 9045D

pH	8.19			pH Units	1	B5J3065	10/30/2025	11/01/2025	
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SAR by 20B Saturated Paste

SAR	0.356		0.0100	SAR	1	B5J3064	10/30/2025	11/03/2025	
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Specific Conductance Mod. 9050A

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FLR01@2'

10/30/2025 9:48:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5J0717-01 (Soil)									
Origins Laboratory									
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.471		0.00500	mmhos/cm	1	B5J3065	10/30/2025	11/01/2025	
Table 915 metals by EPA 6020B									
Arsenic	5.04		0.218	mg/kg dry	10	B5J3062	10/30/2025	10/31/2025	
Barium	3060		61.5	"	"	"	"	"	
Cadmium	0.294		0.285	"	"	"	"	"	
Copper	ND		34.5	"	"	"	"	"	U
Lead	38.8		10.5	"	"	"	"	"	
Nickel	ND		19.5	"	"	"	"	"	U
Selenium	0.244		0.184	"	"	"	"	"	
Silver	ND		0.600	"	"	"	"	"	U
Zinc	ND		277	"	"	"	"	"	U

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FLR01-COMP
10/30/2025 9:58:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5J0717-02 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	0.304		0.124	mg/L dry	1	B5J3057	10/30/2025	10/31/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND	0.197	0.247	mg/kg dry	1	B5J3114	10/31/2025	11/08/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	271		30.7	mg/kg dry	1	B5J3039	10/30/2025	10/30/2025	
Residual Range Organics (C28-C36)	164		123	"	"	"	"	"	
Surrogate: o-Terphenyl	83.6 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	0.067		0.003	mg/kg dry	1	B5J3048	10/30/2025	10/31/2025	
1,3,5-Trimethylbenzene	ND		0.003	"	"	"	"	"	U
Benzene	ND		0.003	"	"	"	"	"	U
Ethylbenzene	0.003		0.003	"	"	"	"	"	
Toluene	ND		0.003	"	"	"	"	"	U
Xylenes, total	ND		0.003	"	"	"	"	"	U
Gasoline Range Hydrocarbons	436		6.29	"	25	"	"	10/31/2025	
Surrogate: 1,2-Dichloroethane-d4	94.2 %			70-130		"	"	10/31/2025	

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FLR01-COMP
10/30/2025 9:58:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5J0717-02 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	103 %			70-130		B5J3048	10/30/2025	10/31/2025	
Surrogate: 4-Bromofluorobenzene	76.8 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.29		0.499	meq/L	10	[CALC]	10/30/2025	11/03/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	0.299		0.003	mg/kg dry	1	B5J3032	10/30/2025	10/31/2025	
2-Methylnaphthalene	0.079		0.003	"	"	"	"	"	
Acenaphthene	ND		0.025	"	"	"	"	"	U
Anthracene	0.063		0.025	"	"	"	"	"	
Benzo (a) anthracene	ND		0.006	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.025	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.025	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.025	"	"	"	"	"	U
Chrysene	0.039		0.025	"	"	"	"	"	
Dibenz (a,h) anthracene	ND		0.025	"	"	"	"	"	U
Fluoranthene	ND		0.025	"	"	"	"	"	U

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FLR01-COMP
10/30/2025 9:58:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5J0717-02 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Fluorene	0.792		0.025	mg/kg dry	1	B5J3032	10/30/2025	10/31/2025	
Indeno (1,2,3-cd) pyrene	ND		0.025	"	"	"	"	"	U
Naphthalene	0.014		0.003	"	"	"	"	"	
Pyrene	0.044		0.025	"	"	"	"	"	
Surrogate: Fluorene-d10									
	99.3 %			60-130		"	"	"	
Surrogate: Anthracene-d10									
	102 %			60-130		"	"	"	
Surrogate: Pyrene-d10									
	93.0 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12									
	102 %			60-130		"	"	"	
Percent Solids									
Total Solids, Percent	80.6			mass percent	1	B5J3078	10/30/2025	10/30/2025	
pH in Soil by 9045D									
pH	8.18			pH Units	1	B5J3065	10/30/2025	11/01/2025	
SAR by 20B Saturated Paste									
SAR	0.290		0.0100	SAR	1	B5J3064	10/30/2025	11/03/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.373		0.00500	mmhos/cm	1	B5J3065	10/30/2025	11/01/2025	

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Kayla Kenyon, Project Manager



Montrose Environmental
 471 Denver Ave
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Scott Williamson
 Project Number: 42731
 Project: Chevron - Great Western Sugar 1

FLR01-COMP
10/30/2025 9:58:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5J0717-02 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	6.67		0.233	mg/kg dry	10	B5J3062	10/30/2025	10/31/2025	
Barium	229		65.8	"	"	"	"	"	
Cadmium	ND		0.305	"	"	"	"	"	U
Copper	ND		36.9	"	"	"	"	"	U
Lead	ND		11.2	"	"	"	"	"	U
Nickel	ND		20.9	"	"	"	"	"	U
Selenium	ND		0.197	"	"	"	"	"	U
Silver	ND		0.642	"	"	"	"	"	U
Zinc	ND		297	"	"	"	"	"	U

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Kayla Kenyon, Project Manager

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Montrose Environmental
471 Denver Ave
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Project Number: 42731
Project: Chevron - Great Western Sugar 1

FLR02@3'

10/30/2025 10:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5J0717-03 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	0.451		0.120	mg/L dry	1	B5J3057	10/30/2025	10/31/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND	0.184	0.230	mg/kg dry	1	B5J3114	10/31/2025	11/08/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		29.9	mg/kg dry	1	B5J3039	10/30/2025	10/30/2025	U
Residual Range Organics (C28-C36)	ND		120	"	"	"	"	"	U
Surrogate: o-Terphenyl	92.7 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	B5J3048	10/30/2025	10/31/2025	U
1,3,5-Trimethylbenzene	ND		0.002	"	"	"	"	"	U
Benzene	ND		0.002	"	"	"	"	"	U
Ethylbenzene	ND		0.002	"	"	"	"	"	U
Toluene	ND		0.002	"	"	"	"	"	U
Xylenes, total	ND		0.002	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.238	"	"	"	"	10/31/2025	U

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FLR02@3'

10/30/2025 10:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5J0717-03 (Soil)
 Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	91.7 %			70-130		B5J3048	10/30/2025	10/31/2025	
Surrogate: Toluene-d8	96.3 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	90.7 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.13		0.499	meq/L	10	[CALC]	10/30/2025	11/03/2025	
Magnesium	0.847		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg dry	1	B5J3032	10/30/2025	10/31/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.024	"	"	"	"	"	U
Anthracene	ND		0.024	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.006	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.024	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.024	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.024	"	"	"	"	"	U
Chrysene	ND		0.024	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.024	"	"	"	"	"	U

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Scott Williamson
 Project Number: 42731
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FLR02@3'

10/30/2025 10:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5J0717-03 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Fluoranthene	ND		0.024	mg/kg dry	1	B5J3032	10/30/2025	10/31/2025	U
Fluorene	ND		0.024	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.024	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.024	"	"	"	"	"	U
Surrogate: Fluorene-d10	98.3 %			60-130		"	"	"	
Surrogate: Anthracene-d10	96.3 %			60-130		"	"	"	
Surrogate: Pyrene-d10	112 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.6 %			60-130		"	"	"	
Percent Solids									
Total Solids, Percent	83.8			mass percent	1	B5J3078	10/30/2025	10/30/2025	
pH in Soil by 9045D									
pH	8.19			pH Units	1	B5J3065	10/30/2025	11/01/2025	
SAR by 20B Saturated Paste									
SAR	0.275		0.0100	SAR	1	B5J3064	10/30/2025	11/03/2025	

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Project: Chevron - Great Western Sugar 1

FLR02@3'

10/30/2025 10:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5J0717-03 (Soil)									
Origins Laboratory									
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.354		0.00500	mmhos/cm	1	B5J3065	10/30/2025	11/01/2025	
Table 915 metals by EPA 6020B									
Arsenic	3.37		0.230	mg/kg dry	10	B5J3062	10/30/2025	10/31/2025	
Barium	367		65.0	"	"	"	"	"	
Cadmium	ND		0.301	"	"	"	"	"	U
Copper	ND		36.4	"	"	"	"	"	U
Lead	ND		11.1	"	"	"	"	"	U
Nickel	ND		20.6	"	"	"	"	"	U
Selenium	ND		0.195	"	"	"	"	"	U
Silver	ND		0.634	"	"	"	"	"	U
Zinc	ND		293	"	"	"	"	"	U

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Kayla Kenyon, Project Manager



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Scott Williamson
Project Number: 42731
Project: Chevron - Great Western Sugar 1

*** DEFAULT GENERAL METHOD *** - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5J3078 - % Solids										
Duplicate (B5J3078-DUP1)			Source: E5J0711-01			Prepared: 10/30/2025 Analyzed: 10/30/2025				
Total Solids, Percent	92.3		mass percent		93.8			1.61	20	
Duplicate (B5J3078-DUP2)			Source: E5J0711-02			Prepared: 10/30/2025 Analyzed: 10/30/2025				
Total Solids, Percent	86.5		mass percent		87.5			1.20	20	
Batch B5J3114 - EPA 3060A										
Blank (B5J3114-BLK1)			Prepared: 10/31/2025 Analyzed: 11/08/2025							
Hexavalent Chromium	ND	0.200	mg/kg wet							U
LCS (B5J3114-BS1)			Prepared: 10/31/2025 Analyzed: 11/08/2025							
Hexavalent Chromium	1.92	0.200	mg/kg wet	2.00		95.9	80-120			
Matrix Spike (B5J3114-MS1)			Source: E5J0612-01			Prepared: 10/31/2025 Analyzed: 11/08/2025				
Hexavalent Chromium	2.12	0.239	mg/kg dry	2.39	ND	88.6	75-125			
Matrix Spike (B5J3114-MS2)			Source: E5J0612-01			Prepared: 10/31/2025 Analyzed: 11/08/2025				
Hexavalent Chromium	183	23.5	mg/kg dry	254	ND	72.1	75-125			QM-07
Matrix Spike Dup (B5J3114-MSD1)			Source: E5J0612-01			Prepared: 10/31/2025 Analyzed: 11/08/2025				
Hexavalent Chromium	2.07	0.237	mg/kg dry	2.37	ND	87.2	75-125	2.48	20	
Post Spike (B5J3114-PS1)			Source: E5J0612-01			Prepared: 10/31/2025 Analyzed: 11/08/2025				
Hexavalent Chromium	53.1		ug/L	50.0	3.53	99.2	80-120			

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Classical Chemistry Parameters - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5J3057 - DTPA Sorbitol Preparation

Blank (B5J3057-BLK1)

Prepared: 10/30/2025 Analyzed: 10/31/2025

(DTPA Sorbitol) Boron	ND	0.100	mg/L wet							U
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Duplicate (B5J3057-DUP1)

Source: E5J0698-01

Prepared: 10/30/2025 Analyzed: 10/31/2025

(DTPA Sorbitol) Boron	0.862	0.117	mg/L dry		0.888			2.99	50	
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Batch B5J3064 - Saturated Paste Metals

Blank (B5J3064-BLK1)

Prepared: 10/30/2025 Analyzed: 11/03/2025

Calcium PPM	ND	10.0	mg/L							U
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SAR	ND	0.0100	SAR							U
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Magnesium PPM	ND	10.0	mg/L							U
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Sodium PPM	ND	10.0	"							U
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Duplicate (B5J3064-DUP1)

Source: E5J0711-01

Prepared: 10/30/2025 Analyzed: 11/03/2025

Calcium PPM	34.8	10.0	mg/L		33.4			4.34	50	
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SAR	ND	0.0100	SAR		0.290				200	U
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Magnesium PPM	8.10	10.0	mg/L		7.48			7.96	50	U
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Sodium PPM	9.34	10.0	"		7.12			27.0	50	U
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 Project: Chevron - Great Western Sugar 1

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5J3032 - EPA 3580

Blank (B5J3032-BLK1)

Prepared: 10/30/2025 Analyzed: 10/30/2025

1-Methylnaphthalene	ND	0.002	mg/kg wet							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Pyrene	ND	0.020	"							U

Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		95.7	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.9	60-130			

LCS (B5J3032-BS1)

Prepared: 10/30/2025 Analyzed: 10/30/2025

1-Methylnaphthalene	0.199	0.002	mg/kg wet	0.197		101	70-130			
2-Methylnaphthalene	0.194	0.002	"	0.197		98.5	70-130			
Acenaphthene	0.188	0.020	"	0.197		95.3	70-130			
Anthracene	0.176	0.020	"	0.197		89.2	70-130			
Benzo (a) anthracene	0.188	0.005	"	0.197		95.6	70-130			
Benzo (a) pyrene	0.195	0.020	"	0.197		99.1	70-130			

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 Project: Chevron - Great Western Sugar 1

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5J3032 - EPA 3580

LCS (B5J3032-BS1)

Prepared: 10/30/2025 Analyzed: 10/30/2025

Benzo (b) fluoranthene	0.199	0.020	mg/kg wet	0.197		101	70-130			
Benzo (k) fluoranthene	0.190	0.020	"	0.197		96.3	70-130			
Chrysene	0.189	0.020	"	0.197		96.1	70-130			
Dibenz (a,h) anthracene	0.193	0.020	"	0.197		97.8	70-130			
Fluoranthene	0.198	0.020	"	0.197		100	70-130			
Fluorene	0.187	0.020	"	0.197		94.7	70-130			
Indeno (1,2,3-cd) pyrene	0.169	0.020	"	0.197		85.5	70-130			
Naphthalene	0.192	0.002	"	0.197		97.6	70-130			
Pyrene	0.195	0.020	"	0.197		99.2	70-130			

Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	190		"	200		94.4	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Matrix Spike (B5J3032-MS1)

Source: E5J0715-01

Prepared: 10/30/2025 Analyzed: 10/30/2025

1-Methylnaphthalene	0.242	0.002	mg/kg dry	0.232	0.0007	104	70-130			
2-Methylnaphthalene	0.235	0.002	"	0.232	0.0009	101	70-130			
Acenaphthene	0.227	0.023	"	0.232	ND	97.8	70-130			
Anthracene	0.209	0.023	"	0.232	ND	90.3	70-130			
Benzo (a) anthracene	0.230	0.006	"	0.232	0.001	98.6	70-130			
Benzo (a) pyrene	0.229	0.023	"	0.232	0.002	97.9	70-130			
Benzo (b) fluoranthene	0.253	0.023	"	0.232	0.002	108	70-130			
Benzo (k) fluoranthene	0.263	0.023	"	0.232	ND	114	70-130			
Chrysene	0.230	0.023	"	0.232	0.003	97.9	70-130			
Dibenz (a,h) anthracene	0.229	0.023	"	0.232	0.001	98.4	70-130			
Fluoranthene	0.230	0.023	"	0.232	0.0008	98.8	70-130			
Fluorene	0.219	0.023	"	0.232	0.0007	94.2	70-130			

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Scott Williamson
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 Project: Chevron - Great Western Sugar 1

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5J3032 - EPA 3580

Matrix Spike (B5J3032-MS1)		Source: E5J0715-01			Prepared: 10/30/2025 Analyzed: 10/30/2025					
Indeno (1,2,3-cd) pyrene	0.200	0.023	mg/kg dry	0.232	0.001	85.5	70-130			
Naphthalene	0.232	0.002	"	0.232	ND	100	70-130			
Pyrene	0.229	0.023	"	0.232	ND	98.6	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		95.2	60-130			
Surrogate: Pyrene-d10	200		"	200		99.3	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.9	60-130			

Matrix Spike Dup (B5J3032-MSD1)		Source: E5J0715-01			Prepared: 10/30/2025 Analyzed: 10/30/2025					
1-Methylnaphthalene	0.245	0.002	mg/kg dry	0.236	0.0007	104	70-130	1.35	20	
2-Methylnaphthalene	0.240	0.002	"	0.236	0.0009	101	70-130	2.00	20	
Acenaphthene	0.230	0.024	"	0.236	ND	97.3	70-130	1.25	20	
Anthracene	0.216	0.024	"	0.236	ND	91.3	70-130	2.93	20	
Benzo (a) anthracene	0.230	0.006	"	0.236	0.001	96.8	70-130	0.128	20	
Benzo (a) pyrene	0.228	0.024	"	0.236	0.002	95.7	70-130	0.478	20	
Benzo (b) fluoranthene	0.256	0.024	"	0.236	0.002	108	70-130	1.23	20	
Benzo (k) fluoranthene	0.247	0.024	"	0.236	ND	105	70-130	6.17	20	
Chrysene	0.232	0.024	"	0.236	0.003	97.0	70-130	0.887	20	
Dibenz (a,h) anthracene	0.227	0.024	"	0.236	0.001	95.7	70-130	0.939	20	
Fluoranthene	0.236	0.024	"	0.236	0.0008	99.8	70-130	2.85	20	
Fluorene	0.224	0.024	"	0.236	0.0007	94.4	70-130	1.99	20	
Indeno (1,2,3-cd) pyrene	0.226	0.024	"	0.236	0.001	95.0	70-130	12.3	20	
Naphthalene	0.233	0.002	"	0.236	ND	98.8	70-130	0.390	20	
Pyrene	0.235	0.024	"	0.236	ND	99.4	70-130	2.63	20	
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		95.1	60-130			
Surrogate: Pyrene-d10	200		"	200		100	60-130			

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EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5J3032 - EPA 3580

Matrix Spike Dup (B5J3032-MSD1)

Source: E5J0715-01

Prepared: 10/30/2025 Analyzed: 10/30/2025

Surrogate: Benzo (a) pyrene-d12	200		ug/kg	200	99.3		60-130			
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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5J3039 - EPA 3550B

Prepared: 10/30/2025 Analyzed: 10/30/2025

Blank (B5J3039-BLK1)

Diesel (C10-C28)	ND	25.0	mg/kg wet							U
Residual Range Organics (C28-C36)	ND	99.8	"							U

Surrogate: o-Terphenyl

23			"	24.8		91.1	50-150			
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LCS (B5J3039-BS1)

Prepared: 10/30/2025 Analyzed: 10/30/2025

Diesel (C10-C28)	1010	49.3	mg/kg wet	986		102	70-130			
Residual Range Organics (C28-C36)	1090	197	"	986		111	70-130			

Surrogate: o-Terphenyl

57			"	49.1		117	50-150			
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Matrix Spike (B5J3039-MS1)

Source: E5J0715-01

Prepared: 10/30/2025 Analyzed: 10/30/2025

Diesel (C10-C28)	1300	58.0	mg/kg dry	1160	78.5	105	70-130			
Residual Range Organics (C28-C36)	1560	232	"	1160	215	116	70-130			

Surrogate: o-Terphenyl

62			"	57.7		107	50-150			
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Matrix Spike Dup (B5J3039-MSD1)

Source: E5J0715-01

Prepared: 10/30/2025 Analyzed: 10/30/2025

Diesel (C10-C28)	1300	59.0	mg/kg dry	1180	78.5	103	70-130	0.153	35	
Residual Range Organics (C28-C36)	1550	236	"	1180	215	113	70-130	0.846	35	

Surrogate: o-Terphenyl

62			"	58.7		105	50-150			
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Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5J3062 - EPA 3050B

Blank (B5J3062-BLK1)

Prepared: 10/30/2025 Analyzed: 10/31/2025

Arsenic	ND	0.218	mg/kg wet							U
Barium	ND	61.5	"							U
Cadmium	ND	0.285	"							U
Copper	ND	34.5	"							U
Lead	ND	10.5	"							U
Nickel	ND	19.5	"							U
Selenium	ND	0.184	"							U
Silver	ND	0.600	"							U
Zinc	ND	278	"							U

LCS (B5J3062-BS1)

Prepared: 10/30/2025 Analyzed: 10/31/2025

Arsenic	5.23	0.218	mg/kg wet	5.00		105	80-120			
Barium	529	61.5	"	500		106	80-120			
Cadmium	5.21	0.285	"	5.00		104	80-120			
Copper	50.9	34.5	"	50.0		102	80-120			
Lead	5.19	10.5	"	5.00		104	80-120			U
Nickel	5.30	19.5	"	5.00		106	80-120			U
Selenium	5.13	0.184	"	5.00		103	80-120			
Silver	5.05	0.600	"	5.00		101	80-120			
Zinc	53.6	278	"	50.0		107	80-120			U

Matrix Spike (B5J3062-MS1)

Source: E5J0705-01

Prepared: 10/30/2025 Analyzed: 10/31/2025

Arsenic	7.74	0.223	mg/kg dry	5.11	1.49	122	75-125			
Barium	633	62.8	"	511	19.9	120	75-125			
Cadmium	5.96	0.291	"	5.11	0.0215	116	75-125			
Copper	64.5	35.2	"	51.1	2.72	121	75-125			
Lead	10.8	10.7	"	5.11	4.17	129	75-125			QM-07

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Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5J3062 - EPA 3050B

Matrix Spike (B5J3062-MS1)

Source: E5J0705-01

Prepared: 10/30/2025 Analyzed: 10/31/2025

Nickel	9.76	19.9	mg/kg dry	5.11	3.19	129	75-125			QM-07, U
Selenium	6.03	0.188	"	5.11	0.0678	117	75-125			
Silver	5.84	0.613	"	5.11	0.0129	114	75-125			
Zinc	82.9	283	"	51.1	15.7	131	75-125			QM-07, U

Matrix Spike Dup (B5J3062-MSD1)

Source: E5J0705-01

Prepared: 10/30/2025 Analyzed: 10/31/2025

Arsenic	7.12	0.241	mg/kg dry	5.53	1.49	102	75-125	8.25	20	
Barium	600	68.0	"	553	19.9	105	75-125	5.21	20	
Cadmium	5.79	0.315	"	5.53	0.0215	104	75-125	2.92	20	
Copper	59.9	38.1	"	55.3	2.72	103	75-125	7.50	20	
Lead	9.89	11.6	"	5.53	4.17	103	75-125	8.53	20	U
Nickel	8.98	21.6	"	5.53	3.19	105	75-125	8.41	20	U
Selenium	5.99	0.204	"	5.53	0.0678	107	75-125	0.645	20	
Silver	5.59	0.663	"	5.53	0.0129	101	75-125	4.53	20	
Zinc	75.7	307	"	55.3	15.7	108	75-125	9.07	20	U

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 Project: Chevron - Great Western Sugar 1

Saturated Paste - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5J3065 - Saturated Paste pH/EC

Blank (B5J3065-BLK1)

Prepared: 10/30/2025 Analyzed: 11/01/2025

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
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Duplicate (B5J3065-DUP1)

Source: E5J0711-01

Prepared: 10/30/2025 Analyzed: 11/01/2025

pH	8.01		pH Units		8.04		0.374		25	
Specific Conductance (EC)	0.296	0.00500	mmhos/cm		0.273		8.09		25	

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Kayla Kenyon, Project Manager



Montrose Environmental
 471 Denver Ave
 Loveland CO 80537

Scott Williamson
 Project Number: 42731
 Project: Chevron - Great Western Sugar 1

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5J3048 - EPA 5030 (soil)

Blank (B5J3048-BLK1)

Prepared: 10/30/2025 Analyzed: 10/30/2025

1,2,4-Trimethylbenzene	ND	0.002	mg/kg wet							U
1,3,5-Trimethylbenzene	ND	0.002	"							U
Benzene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U

Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.2	70-130
Surrogate: Toluene-d8	0.12		"	0.125		96.0	70-130
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.6	70-130

LCS (B5J3048-BS1)

Prepared: 10/30/2025 Analyzed: 10/30/2025

1,2,4-Trimethylbenzene	0.098	0.002	mg/kg wet	0.100		97.7	70-130
1,3,5-Trimethylbenzene	0.099	0.002	"	0.100		99.3	70-130
Benzene	0.092	0.002	"	0.100		91.8	70-130
Ethylbenzene	0.097	0.002	"	0.100		96.7	70-130
Toluene	0.095	0.002	"	0.100		94.9	70-130
o-Xylene	0.098	0.002	"	0.100		98.4	70-130
m,p-Xylene	0.198	0.004	"	0.200		99.0	70-130

Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.8	70-130
Surrogate: Toluene-d8	0.12		"	0.125		98.5	70-130
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130

Matrix Spike (B5J3048-MS1)

Source: E5J0727-01

Prepared: 10/30/2025 Analyzed: 10/30/2025

1,2,4-Trimethylbenzene	0.103	0.002	mg/kg dry	0.121	ND	84.6	70-130
1,3,5-Trimethylbenzene	0.104	0.002	"	0.121	ND	86.0	70-130
Benzene	0.105	0.002	"	0.121	ND	86.4	70-130

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5J3048 - EPA 5030 (soil)

Matrix Spike (B5J3048-MS1)

Source: E5J0727-01

Prepared: 10/30/2025 Analyzed: 10/30/2025

Ethylbenzene	0.107	0.002	mg/kg dry	0.121	ND	87.9	70-130			
Toluene	0.107	0.002	"	0.121	ND	88.0	70-130			
o-Xylene	0.106	0.002	"	0.121	ND	87.6	70-130			
m,p-Xylene	0.213	0.005	"	0.243	ND	87.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.152		91.5	70-130			
Surrogate: Toluene-d8	0.15		"	0.152		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.16		"	0.152		103	70-130			

Matrix Spike Dup (B5J3048-MSD1)

Source: E5J0727-01

Prepared: 10/30/2025 Analyzed: 10/30/2025

1,2,4-Trimethylbenzene	0.107	0.002	mg/kg dry	0.120	ND	89.4	70-130	4.43	20	
1,3,5-Trimethylbenzene	0.109	0.002	"	0.120	ND	90.8	70-130	4.27	20	
Benzene	0.109	0.002	"	0.120	ND	90.8	70-130	3.74	20	
Ethylbenzene	0.109	0.002	"	0.120	ND	91.3	70-130	2.66	20	
Toluene	0.108	0.002	"	0.120	ND	90.4	70-130	1.53	20	
o-Xylene	0.110	0.002	"	0.120	ND	91.7	70-130	3.48	20	
m,p-Xylene	0.222	0.005	"	0.240	ND	92.5	70-130	4.10	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.150		92.8	70-130			
Surrogate: Toluene-d8	0.14		"	0.150		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.16		"	0.150		105	70-130			

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Notes and Definitions

- U Sample is Non-Detect.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

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